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1 [Keynote lecture: shape interrogation](#)

[Nicholas M. Patrikalakis](#)

June 2003 [SM '03: Proceedings of the eighth ACM symposium on Solid modeling and applications](#)

Publisher: ACM

Full text available: [PDF](#) (111.65 KB) Additional Information: [full citation](#), [abstract](#), [cited by](#)

Bibliometrics: Downloads (6 Weeks): 5, Downloads (12 Months): 48, Citation Count: 1

Shape interrogation is the process of extraction of information from a geometric model. It is a fundamental component of CAD/CAM systems. In this lecture, we focus on shape interrogation of geometric models bounded by free-form or sculptured surfaces. ...

2 [T.LoADS abbreviated systems architecture](#)

[Bob Hamber](#)

December 2001 [WSC '01: Proceedings of the 33nd conference on Winter simulation](#)
Publisher: IEEE Computer Society

Full text available: [PDF](#) (264.62 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 0, Downloads (12 Months): 12, Citation Count: 1

The Tactical Logistics Distribution System (T.LoADS or TLoADS) is a powerful and flexible simulation application for assessing current or future tactical or sea-based distribution systems. In its current state of development, it is an analytical model ...

3 Modern languages and Microsoft's component object model**David N. Gray, John Hotchkiss, Seth LaForge, Andrew Shalit, Toby Weinberg****May****Communications of the ACM**, Volume 41 Issue 5

1998

Publisher: ACM Full text available: [Pdf](#) (340.03 KB) Additional Information: [full citation](#), [references](#), [cited by](#), [index terms](#), [review](#)**Bibliometrics:** Downloads (6 Weeks): 7, Downloads (12 Months): 110, Citation Count: 7**4 Communications of the ACM: Volume 51 Issue 8****August 2008****Communications of the ACM****Publisher:** ACMFull text available: [Digital Edition](#), [Pdf](#) (6.85 MB) Additional Information: [full citation](#)**Bibliometrics:** Downloads (6 Weeks): 473, Downloads (12 Months): 3045, Citation Count: 0**5 Communications of the ACM: Volume 51 Issue 2****February 2008****Communications of the ACM****Publisher:** ACMFull text available: [Digital Edition](#), [Pdf](#) (3.89 MB) Additional Information: [full citation](#)**Bibliometrics:** Downloads (6 Weeks): 322, Downloads (12 Months): 2488, Citation Count: 0**6 Transparent adaptation of single-user applications for multi-user real-time collaboration****Chengzheng Sun, Steven Xia, David Sun, David Chen, Haifeng Shen, Wentong Cai****December 2006** **Transactions on Computer-Human Interaction (TOCHI)**, Volume 13 Issue 4**Publisher:** ACM Full text available: [Pdf](#) (3.12 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)**Bibliometrics:** Downloads (6 Weeks): 34, Downloads (12 Months): 303, Citation Count: 5

Single-user interactive computer applications are pervasive in our daily lives and work. Leveraging single-user applications for supporting multi-user collaboration has the potential to significantly increase the availability and improve the usability ...

Keywords: Application sharing, CoPowerPoint, CoWord, computer-supported cooperative work, operational transformation, transparent adaptation

7 The impact of research on the development of middleware technology**Wolfgang Emmerich, Mikio Aoyama, Joe Sventek****August 2008** **Transactions on Software Engineering and Methodology (TOSEM)** , Volume 17 Issue 4**Publisher:** ACM [Request Permissions](#)Full text available: [Pdf](#) (1.48 MB)Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)**Bibliometrics:** Downloads (6 Weeks): 49, Downloads (12 Months): 576, Citation Count: 1

The middleware market represents a sizable segment of the overall Information and Communication Technology market. In 2005, the annual middleware license revenue was reported by Gartner to be in the region of \$8.5 billion. In this article we address ...

8 Business-to-business interactions: issues and enabling technologies**B. Medjahed, B. Benatallah, A. Bouguettaya, A. H. H. Nou, A. K. Elmagarmid****May 2003** **The VLDB Journal — The International Journal on Very Large Data Bases** , Volume 12 Issue 1**Publisher:** Springer-Verlag New York, Inc.Full text available: [Pdf](#) (558.34 KB)Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)**Bibliometrics:** Downloads (6 Weeks): 102, Downloads (12 Months): 978, Citation Count: 25

Business-to-Business (B2B) technologies pre-date the Web. They have existed for at least as long as the Internet. B2B applications were among the first to take advantage of advances in computer networking. The Electronic Data Interchange (EDI) business ...

Keywords: B2B Interactions, Components, E-commerce, EDI, Web services, Workflows, XML

9 The impact of research on middleware technology**Wolfgang Emmerich, Mikio Aoyama, Joe Sventek****January 2007** **SI GSOFT Software Engineering Notes** , Volume 32 Issue 1**Publisher:** ACMFull text available: [Pdf](#) (2.24 MB)Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)**Bibliometrics:** Downloads (6 Weeks): 31, Downloads (12 Months): 282, Citation Count: 2

The middleware market represents a sizable segment of the overall Information and Communication Technology market. In 2005, the annual middleware license revenue was reported by Gartner to be in the region of 8.5 billion US Dollars. In this article we ...

10 The impact of research on middleware technology

Wolfgang Emmerich, Mikio Aoyama, Joe Sventek

January

SIGOPS Operating Systems Review, Volume 41 Issue 1

2007

Publisher: ACMFull text available: [PDF](#) (573.57 KB)Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)**Bibliometrics:** Downloads (6 Weeks): 65, Downloads (12 Months): 430, Citation Count: 0

The middleware market represents a sizable segment of the overall Information and Communication Technology market. In 2005, the annual middleware license revenue was reported by Gartner to be in the region of 8.5 billion US Dollars. In this article we ...

11 A formal framework for component deployment

Yu, David Liu, Scott F. Smith

October

OOPSLA '06: Proceedings of the 21st annual ACM SIGPLAN conference on Object-oriented programming systems, languages, and applications

2006

Publisher: ACM Full text available: [PDF](#) (592.54 KB)Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)**Bibliometrics:** Downloads (6 Weeks): 27, Downloads (12 Months): 173, Citation Count: 1

Software deployment is a complex process, and industrial-strength frameworks such as .NET, Java, and CORBA all provide explicit support for component deployment. However, these frameworks are not built around fundamental principles as much as they are ...

Keywords: component, deployment, version

Also published in:

October 2006 **SIGPLAN Notices** Volume 41 Issue 10**12 Improving the aircraft design process using Web-based modeling and simulation**

John A. Reed, Gregory J. Follen, Abdollah A. Alieh

January

Transactions on Modeling and Computer Simulation (TOMACS), 2000 Volume 10 Issue 1

2000

Publisher: ACM Full text available: [PDF](#) (1.06 MB)Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)**Bibliometrics:** Downloads (6 Weeks): 9, Downloads (12 Months): 94, Citation Count: 0

Designing and developing new aircraft systems is time-consuming and expensive. Computational simulation is a promising means for reducing design cycle times, but requires a flexible software environment capable of integrating advanced multidisciplinary ...

Keywords: Java, Web-based simulation, aircraft design, object-oriented

13 Introducing embedded software and systems education and advanced learning technology in an engineering curriculum

 Janos Szepanek, Gautam Biswas, Ken Frampton, Aniruddha Gokhale, Larry Howard, Gabor Karsai, T. John Koo, Xenofon Koutsoukos, Douglas C. Schmidt

August 2005 **Transactions on Embedded Computing Systems (TECS)**, Volume 4 Issue 3

Publisher: ACM 

Full text available:  PDF (1.11 MB) Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 14, Downloads (12 Months): 178, Citation Count: 4

Embedded software and systems are at the intersection of electrical engineering, computer engineering, and computer science, with, increasing importance, in mechanical engineering. Despite the clear need for knowledge of systems modeling and analysis ...

Keywords: Computer-aided learning

14 Component evolution and versioning state of the art

 Alexander Stuckenholz

January 2005 **SI GSOFT Software Engineering Notes**, Volume 30 Issue 1

Publisher: ACM

Full text available:  PDF (213.99 KB) Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 23, Downloads (12 Months): 188, Citation Count: 6

Emerging component-based software development architectures promise better reuse of software components, greater flexibility, scalability and higher quality of services. But like any other piece of software too, software components are hardly perfect, ...

15 Protection and communication abstractions for web browsers in MashupOS

 Helen J. Wang, Xiaoteng Fan, Jon Howell, Collin Jackson

October 2007 **SOSP '07: Proceedings of twenty-first ACM SIGOPS symposium on Operating systems principles**

Publisher: ACM 

Full text available:  PDF (328.60 KB) Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 34, Downloads (12 Months): 343, Citation Count: 7

Web browsers have evolved from a single-principal platform on which one site is browsed at a time into a multi-principal platform on which data and code from mutually distrusting sites interact programmatically in a single page at the browser. Today's ...

Keywords: abstractions, browser, communications, multi-principal OS, protection, same-origin policy, security, web

Also published in:

October 2007 **SIGOPS Operating Systems Review** Volume 41 Issue 6**16** Trusted paths for browsers Zishuang (Eileen) Ye, Sean Smith, Denise AnthonyMay **Transactions on Information and System Security (TISSEC)**, Volume 8

2005 Issue 2

Publisher: ACM Full text available:  Pdf (265.37 KB)Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)**Bibliometrics:** Downloads (6 Weeks): 49, Downloads (12 Months): 247, Citation Count: 5

Computer security protocols usually terminate in a computer; however, the human-based services which they support usually terminate in a human. The gap between the human and the computer creates potential for security problems. We examine this gap, as ...

Keywords: HCISEC, Trust path, Web browser security**17** Providing QoS Customization in Distributed Object Systems Jun He, Matii A. Hiltunen, Mohan Rajagopalan, Richard D. SchlichtingNovember **Middleware '01: Proceedings of the IFIP/ACM International Conference on Distributed Systems Platforms** Heidelberg 2001**Publisher:** Springer-VerlagFull text available:  Pdf (143.84 KB)Additional Information: [full citation](#), [references](#), [cited by](#)**Bibliometrics:** Downloads (6 Weeks): 3, Downloads (12 Months): 3, Citation Count: 4**18** An Efficient Component Model for the Construction of Adaptive Middleware Michael Clarke, Gordon S. Blair, Geoff Coulson, Nikos ParlavantzasNovember **Middleware '01: Proceedings of the IFIP/ACM International Conference on Distributed Systems Platforms** Heidelberg 2001**Publisher:** Springer-VerlagFull text available:  Pdf (173.11 KB)Additional Information: [full citation](#), [references](#), [cited by](#)**Bibliometrics:** Downloads (6 Weeks): 8, Downloads (12 Months): 13, Citation Count: 29**19** An interoperable calculus for external object access Atsushi Ohori, Kiyoshi YamamotoOctober **ICFP '02: Proceedings of the seventh ACM SIGPLAN international conference on Functional programming** 2002**Publisher:** ACM Full text available:  Pdf (211.75 KB)Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)**Bibliometrics:** Downloads (6 Weeks): 5, Downloads (12 Months): 16, Citation Count: 0

By extending an ML-style type system with record polymorphism, recursive type definition, and an ordering relation induced by field inclusion, it is possible to achieve seamless and type safe interoperability with an object-oriented language. Based on ...

Keywords: Java, ML, interoperability, object-oriented language, record polymorphism, type inference

Also published in:

September 2002 **SIGPLAN Notices** Volume 37 Issue 9

20 [A feather-weight virtual machine for windows applications](#)



Yang Yu, Fanglu Guo, Susanta Nanda, Lap-chung Lam, Tzi-cker Chiueh

June 2006 **VEE '06**: Proceedings of the 2nd international conference on Virtual execution environments

Publisher: ACM  [Request Permissions](#)

Full text available:  [PDF](#) (192.18 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index](#), [terms](#)

Bibliometrics: Downloads (6 Weeks): 22, Downloads (12 Months): 175, Citation Count: 5

Many fault-tolerant and intrusion-tolerant systems require the ability to execute unsafe programs in a realistic environment without leaving permanent damages. Virtual machine technology meets this requirement perfectly because it provides an execution ...

Keywords: copy on write, mobile code security, namespace virtualization, system call interception, virtual machine

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